AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) An authenticating method for portable radio devices, comprising data communicating means for performing radio communication over a first coverage area and authorizing authenticating means for performing authentication of said portable radio devices over a second coverage area, comprising the steps of:

switching coverage area of two or more of said portable radio devices to be mutually authenticated from the first coverage area to the second coverage area, the second coverage area being smaller than the first coverage area;

<u>bringing</u> the two or more portable radio devices to be mutually authenticated having the second coverage area <u>being brought</u> to within <u>a</u> proximity of one another so that the coverage areas <u>of the two or more portable radio devices</u> overlap;

initiating mutual authentication by establishing communication between the two or more portable radio devices based only on the bringing of the two or more portable radio devices to within the proximity;

performing mutual authentication between the two or more portable radio devices by said authenticating means automatically when the coverage area of the two or more portable radio devices overlap; and

preventing communication with an unintentional portable radio device by narrowing the coverage area of the two or more portable radio devices to be mutually

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authenticated before mutual authentication initiates based on the proximity of the two or

more portable radio devices[[; and]]

specifying other devices to be mutually authenticated when the two or more-

portable radio devices are within a predetermined range of each other over said second

coverage area.

2. (Previously Presented) The authenticating method for the portable radio

devices according to Claim 1, wherein the step of performing the authentication by said

authenticating means is performed in a state where a transmission output of said

portable radio devices is reduced to shorten a communication distance of said portable

radio devices.

3. (Currently Amended) An authenticating method for portable radio devices,

comprising data communicating means for performing radio communication over a first

coverage area and authenticating means for performing authentication of said portable

radio devices over a second coverage area, comprising the steps of:

switching coverage area of a portable radio device to be mutually authenticated

from the first coverage area to the second coverage area, the second coverage area

being smaller than the first coverage area;

bringing the two or more portable radio devices to be mutually authenticated

having the second coverage area to within a proximity of one another so that the

coverage areas of the two or more portable radio devices overlap;

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performing mutual authentication between two or more portable radio devices by
said authenticating means automatically when the coverage area of the two or more
portable radio devices overlap; and

narrowing the coverage area of the two or more portable radio devices before mutual authentication initiates based on the proximity of the two or more portable radio devices,

The authenticating method for the portable radio devices according to Claim 2, wherein [[the]] a transmission output of only a particular one of said portable radio devices is reduced to sshorten a communication distance of said portable radio devices is reduced only in a particular one of said portable radio devices.

- 4. (Previously Presented) The authenticating method for the portable radio devices according to Claim 2, wherein the transmission output is reduced upon turning-on an authentication button provided on said particular one of said portable radio devices.
- 5. (Previously Presented) The authenticating method for the portable radio devices according to Claim 1, wherein the step of performing the authentication by said authenticating means is performed in a state where reception sensitivity of said portable radio devices is reduced to shorten a communication distance of said portable radio devices.

6. (Currently Amended) An authenticating method for portable radio devices, comprising data communicating means for performing radio communication over a first coverage area and authentication means for performing authentication of said portable radio devices over a second coverage area, comprising the steps of:

switching coverage area of a portable radio device to be mutually authenticated from the first coverage area to the second coverage area, the second coverage area being smaller than the first coverage area;

bringing the two or more portable radio devices to be mutually authenticated having the second coverage area to within a proximity of one another so that the coverage areas of the two or more portable radio devices overlap;

by said authenticating means automatically when the coverage area of the two or more portable radio devices portable radio devices overlap; and

preventing communication with an unintentional portable radio device by

narrowing the coverage area of the two or more portable radio devices before mutual
authentication initiates based on the proximity of the two or more portable radio devices.

The authenticating method for the portable radio devices according to Claim 5, wherein the reception sensitivity of only a particular one of said portable radio devices is reduced to shorten a communication distance of said portable radio devices is reduced only in a particular one of said portable radio devices.

7. (Previously Presented) The authenticating method for the portable radio devices according to Claim 5, wherein the reception sensitivity is reduced upon turning-

on an authentication button provided on said particular one of said portable radio devices.

- 8. (Canceled)
- 9. (Currently Amended) A portable radio device comprising:

data communicating means for performing radio communication over a first coverage area and authenticating means for performing authentication over a second coverage area of said portable radio device, and means for switching the coverage area of said portable radio device to be authenticated from said first coverage area to said second coverage area, said second coverage area being smaller than said first coverage area;

said authenticating means of said portable radio device initiating mutual

authentication between two or more portable radio devices based only on the bringing

of the two or more portable radio devices to within a proximity such that the coverage

areas of the two or more portable radio devices overlap; and

said authenticating means of said portable radio device performing, in a condition where a plurality of portable radio devices exist, mutual authentication between the two or more portable radio devices automatically when the two or more portable radio devices are brought in proximity to one another so that the second coverage areas overlap,

wherein communication with an unintentional portable radio device is prevented by narrowing the coverage area of the two or more portable radio devices to be mutually

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authenticated before mutual authentication initiates based on the proximity of the two or

more portable radio devices; and

specifying other devices to be mutually authenticated when the two or more-

portable radio devices are within a predetermined range of each other over said second-

coverage area.

10. (Previously Presented) The portable radio device according to Claim 9,

wherein said authenticating means performs the authentication in a state where a

transmission output of said plurality of portable radio devices is reduced to shorten a

communication distance of said portable radio devices.

11. (Currently Amended) A portable radio device comprising:

data communicating means for performing radio communication over a first

coverage area and authenticating means for performing authentication over a second

coverage area of said portable radio device, and means for switching the coverage area

of said portable radio device to be authenticated from said first coverage area to said

second coverage area, said second coverage area being smaller than said first

coverage area;

said authenticating means of said portable radio device performing, in a condition

where a plurality of portable radio devices exist, mutual authentication between two or

more portable radio devices automatically when the two or more portable radio devices

are brought in proximity to one another so that the second coverage areas overlap,

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wherein communication with an unintentional portable radio device is prevented
by narrowing the coverage area of the two or more portable radio devices before mutual
authentication initiates based on the proximity of the two or more portable radio devices,
and

The portable radio device according to Claim 10, wherein [[the]] <u>a</u> transmission output of only a particular one of said portable radio devices is reduced to shorten communication distance of said portable radio devices reduced only in a particular one of said portable radio devices.

- 12. (Previously Presented) The portable radio device according to Claim 10, wherein the transmission output is reduced upon turning-on an authentication button provided on said particular one of said portable radio devices.
- 13. (Previously Presented) The portable radio device according to Claim 9, wherein said authenticating means performs the authentication in a state where reception sensitivity of said portable radio devices is reduced to shorten a communication distance of said portable radio devices.
 - 14. (Currently Amended) A portable radio device comprising:

data communicating means for performing radio communication over a first

coverage area and authenticating means for performing authentication over a second

coverage area of said portable radio device, and means for switching the coverage area

of said portable radio device to be authenticated from said first coverage area to said

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second coverage area, said second coverage area being smaller than said first

coverage area;

said authenticating means of said portable radio device performing, in a condition

where a plurality of portable radio devices exist, mutual authentication between two or

more portable radio devices automatically when the two or more portable radio devices

are brought in proximity to one another so that the second coverage areas overlap,

wherein communication with an unintentional portable radio device is prevented

by narrowing the coverage area of the two or more portable radio devices before mutual

authentication initiates based on the proximity of the two or more portable radio devices,

<u>and</u>

The portable radio device according to Claim 13, wherein [[the]] a reception

sensitivity of only a particular one of said portable radio devices is reduced to shorten

communication distance of said portable radio devices is reduced only in a particular-

one of said portable radio devices.

15. (Previously Presented) The portable radio device according to Claim 13,

wherein the reception sensitivity is reduced upon turning-on an authentication button

provided on said particular one of said portable radio devices.

16. (Canceled)

17. (Currently Amended) An authenticating method for mobile radio devices,

comprising the steps of:

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providing a plurality of mobile radio devices, each of said plurality of mobile radio devices comprising data communicating means for performing radio communication and authenticating means for performing authentication of said mobile radio devices; [[and]]

initiating mutual authentication by establishing communication between two or more radio devices based only on the bringing of the two or more radio devices to within a proximity such that the coverage areas of radio waves generated by the two or more mobile radio devices overlap;

performing mutual authentication between two or more mobile radio devices by said authenticating means automatically when the two or more mobile radio devices come sufficiently closer to each other that coverage areas of radio waves generated by the two or more mobile radio devices overlap; and

preventing communication with an unintentional mobile radio device by narrowing the coverage area of the two or more mobile radio devices to be mutually authenticated before mutual authentication initiates based on the proximity of the two or more mobile radio devices; and

specifying other devices to be mutually authenticated when the two or more mobile radio devices are within a predetermined range of each other over said second-coverage area.